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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/588,287	08/04/2006	Yoshiro Fujino	052363-0035	5414
20277 7590 11/19/2008 MCDERMOTT WILL & EMERY LLP		EXAMINER		
600 13TH STREET, N.W.			YEE, DEBORAH	
WASHINGTON, DC 20005-3096		l l	ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			11/19/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/588,287	FUJINO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Deborah Yee	1793				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 09 Oc	Responsive to communication(s) filed on <u>09 October 2008</u> .					
·	<u> </u>					
3) Since this application is in condition for allowar	/ <del>-</del>					
closed in accordance with the practice under E	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4)⊠ Claim(s) <u>1-13</u> is/are pending in the application.	4) Claim(s) 1-13 is/are pending in the application.					
4a) Of the above claim(s) 11-13 is/are withdraw	4a) Of the above claim(s) <u>11-13</u> is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	<u> </u>					
6)⊠ Claim(s) <u>1-10</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a)⊠ All b)□ Some * c)□ None of:						
	1. Certified copies of the priority documents have been received.					
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)					
3) 🗖 Information Disclosure Statement(s) (PTO/SB/08)	atent Application					
Paper No(s)/Mail Date <u>6/26/07</u> . 6) Other:						

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## **DETAILED ACTION**

## Information Disclosure Statement

1. The information disclosure statement filed August 4, 2006 fails to comply with 37 CFR 1.98(a)(3) because it does not include a concise explanation of the relevance, as it is presently understood by the individual designated in 37 CFR 1.56(c) most knowledgeable about the content of the information, of each patent listed that is not in the English language. It has been placed in the application file, but the information referred to therein has not been considered.

## Election/Restrictions

- 2. Applicant's election of Group I, claims 1 to 10 in the reply filed on October 9, 2008 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- 3. Claims 11 to 13 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim.

## Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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5. Claims 1 to 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over the computer-generated English translation of Japanese patent 2003-213372 ("JP-372").

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- 6. JP-372 in claims 1 and 2 discloses a spring steel wire having a quenched-tempered microstructure and a composition with constituents whose wt% ranges overlap those recited by claims 1 to 7; such overlap in wt% ranges establishes a prima facie case of obviousness because it would be obvious for one skilled in the art to select the claimed alloy wt% ranges over the broader disclosure of the prior art since the prior art teaches the same utility (spring wire used for a car) and similar properties of high fatigue resistance, strength and toughness.
- 7. Also JP-372 steel has a prior austenite maximum grain size is  $\leq 8 \mu m$  which encompasses and therefore teaches the average grain size of 3-7  $\mu m$  recited by dependent claim 8; and in paragraph [0001] uses wire to make spring for a car and therefore meets Applicant's dependent claim 9.
- 8. With regard to process limitations recited by claim 1, JP-372 in paragraph [0028] teaches subjecting 8.0-mm steel wire rod to hot rolling to reduce diameter to 3.5-mm which is about 63% reduction and is within claimed reduction of 40% or higher; and in table 5 of paragraph [0038] discloses heat treating wire at 440°C for 2 hours and is within the claimed range of 420 to 480°C for at least 2 hours.
- 9. Even though prior art does not teach 1000 MPa or higher shear yield stress as recited by the claim, such property would be expected since composition and process of making are closely met and in absence of proof to the contrary. Also shear yield stress

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property is not actively recited in claim 1 and therefore is merely a future property which would not be a patentable consideration. To actively recite property, it is recommended to use language such as —wherein said wire has been subjected to heat treatment for at least 2 hours at a temperature ranging from 420°C to 480°C to produce a hear yield stress of 1000 MPa or higher.---

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 571-272-1253. The examiner can normally be reached on monday-friday 6:00 am-2:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 571-272-1244. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Deborah Yee/ Primary Examiner, Art Unit 1793

/DY/